

Programming challenges

Challenge 1

Display all multiples of 3 or 5 between 1 and 50. For example between 1 and 10 would be:

3, 5, 6, 9, 10

Display the multiples of 3 in green, multiples of 5 in red and multiples of both in purple.

Multiples of 3 or 5

This page displays multiples of 3 or 5 between 1 and 50

3
5
6
9
10
12
15
18
20
21
24
25
27
30
33
35
36
39
40
42
45
48
50

Challenge 2

Display the first 20 numbers of the Fibonacci series. The Fibonacci series is a series of numbers in which each number (Fibonacci number) is the sum of the two preceding numbers. For example the series 1, 1, 2, 3, 5, 8, etc.

Fibonacci

This page displays the first 20 numbers in the fibonacci series

0
1
1
2
3
5
8
13
21
34
55
89
144
233
377
610
987
1597
2584
4181
6765
10946

Challenge 3

Display all prime numbers between 2 and 100. A prime number is a number that cannot be divided by any other number except for 1 and itself, for example 13 is a prime number because no other number fits evenly into it.

Create a function called `isPrime()` this function will take as input a number and return true if the number is a prime number and false otherwise. Using a loop call this function for all numbers between 2 and 100.

Prime Numbers

This page displays all prime numbers between 2 and 100

2
3
5
7
11
13
17
19
23
29
31
37
41
43
47
53
59
61
67
71
73
79
83
89
97

Challenge 4

Store the month names in an array. Display a bullet list with each month name and the number of characters in the month name.

Month Names

This page displays the month name and the number of letters in each month name

- January - has 7 letters
- February - has 8 letters
- March - has 5 letters
- April - has 5 letters
- May - has 3 letters
- June - has 4 letters
- July - has 4 letters
- August - has 6 letters
- September - has 9 letters
- October - has 7 letters
- November - has 8 letters
- December - has 8 letters

Challenge 5

This is an optional extra challenge.

Display how many days until the next TAFE holidays.

Display how many weeks and days until the next TAFE holidays. For example:

How long until the holidays

This page displays the number of days until the holidays

There are 50 day(s) until the next holidays

There are 7 week(s) and 1 day(s) until the next holidays